

A NEW SPECIES OF HEDYSARUM (LEGUMINOSAE) FROM CHINA

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A specimen of *Hedysarum* collected by J. F. Rock in 1925 from Kansu of China was cited by Handel-Mazzetti (1933) under *H. tanguticum* B. Fedtsch., but it cannot be referred to this species because it differs in the hairs on the leaflets and the shape of calyces. The plant represents a species considered to be new to science and seems to belong to the section *Obscura* B. Fedtsch. in which *H. tanguticum* is included, but its precise position cannot be determined until pods of the plant are known.

The new species appears to be related closely to *H. tanguticum* in having slender stems copiously branched at the base, long keel-petals and upright, condensed, axillary racemes each of which rises from the base. *H. tanguticum* has recently been treated as a variety of *H. sikkimense* Benth. ex Baker and becomes var. *megalanthum* Ohashi & Tateishi (Ohashi & Tateishi, 1975). From the *H. sikkimense* group, however, the new species mainly differs by hairiness on the upper surface of leaflets, calyces with the more connate upper lobes, acute leaflets, and shorter bracteoles 0.4-0.7mm long.

The new species is also allied to *H. pseudastragalus* Ulbr. of W Szechuan and NW Yunnan and *H. manaslense* (Kitamura) Ohashi and *H. campylocarpon* Ohashi of central Nepal. From *H. pseudastragalus* the new species differs in having larger, 20-24 × 7-9mm, narrowly ovate or ovate leaflets (as against 7-10 × 5-10mm and broadly ovate or suborbicular in *H. pseudastragalus*) with conspicuous lateral veins, and shorter, 0.4-0.7mm long, bracteoles (as against 3.5-5mm in *H. pseudastragalus*). The two Nepalese species are easily distinguished from the new species by their robust stems with axillary racemes, and the length of keel petals. The keel-petals of the new species are 26-28mm long and much longer than the other petals, but those of the Nepalese species are usually shorter than 20mm and shorter than or equal to the wings.

***Hedysarum taoriparium* B. Choi & Ohashi, sp. nov.** (Figs. 1 & 2).

Planta perennis, 40cm vel ultra alta. Caules tenues, prope basin 1.5-2.5mm crassi, 2-3 internodiis, albo-pilosis (pilis c.1mm longis). Stipulae foliis oppositae, membranaceae, basi connatae, apice bifidae, 15-20mm longae et 4-5mm latae, intus glabrae, extus dense albo-tomentosae. Folia alterna, vulgo (petiolo 2-3cm longo incluso) 12-16cm longa, imparipinnata, rhachi albo-tomentosa. Foliola 8-9-juga, generaliter opposita, anguste ovata vel ovata, apice acuta, vulgo 20-24mm longa 7-9mm lata, supra et infra tomentosa, margine integra, sine stipellis, nervis supra plus minusve conspicuis. Inflorescentia axillaris solitaria, floribus plerumque 10-20, usque ad 20cm longa; pedunculus (racemo 3-5cm longo excluso) 12-14mm longus, foliis longior vel subaequilongior, tomentosus. Bracteae membranaceae, anguste-triangulares, 7-11mm longae et 0.7-

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FIG. 1. Holotype of *Hedysarum taoriparium* B. Choi & Ohashi.

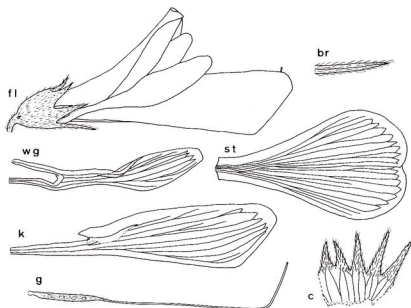


FIG. 2. *Hedysarum taoriparium* B. Choi & Ohashi. fl, flower; br, bract from outside; wg, wing; st, standard; k, keel-petal; g, gynoecium; c, calyx from inside. All $\times 5$ and drawn from the holotype.

1mm latae, apice acuminatae, extus dense pubescentes intus glabrae, non caducae. *Pedicelli* 2–3.5mm longi, dense pubescentes. *Bracteolae* anguste ovatae, minimae 0.4–0.7mm longae et 0.2mm latae, extus pubescentes. *Calyx* campanulatus, 8–10mm longus, extus pilis albis (c.1mm longis) et pilis brunneis (0.2–0.6mm longis), supra medium 5-fidus; tubo laciniis posticis brevior, lateralibus et anticis longior, laciniis posticis anguste triangularibus 3–4mm longis, laciniis lateralibus et anticis anguste triangularibus 4–5mm longis, basi 1.5–2mm latis. *Corolla* apice atropurpureo-rubra et basi diluta, carina petalis ceteris conspicue longior. *Vexillum* obovatum, apice emarginatum, alis subaequilongum, 18–20mm longum et 9–11mm latum, utrinque glabrum; alae unguiculatae, (ungue 6–8mm longo incluso) 18.5–20.5mm longae et 3–4mm latae, laminis anguste oblongis apice obtusis basi auriculatis (auricula 6–7.5mm longa); carina unguiculata, (ungue 7.5–8.5mm longo incluso) 26–28mm longa et 5–7mm lata, lamina fere obovata apice obtusa basi breviter auriculata. *Stamina* diadelfa, vexillari c.25mm longo, ceteris alte connatis 26–28mm longis. *Pistillum* 28–30mm longum, breviter stipitatum (stipite c.1mm longo); ovario 3–4-ovulato, 6–8mm longo, pilis dense adpressis; stylo glabro. *Legumen* ignotum.

Type: China. SW Kansu, T'ao River basin, on boulders in stream bed of Hsiaoku, alt. 10000ft, 6 vii 1925. *J. F. Rock* 12623 (holo. E).

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